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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,769	02/03/2004	Patrice Onno	01807.101359.	9287
	7590 10/29/200 CELLA HARPER &	EXAMINER		
30 ROCKEFELLER PLAZA			RASHIDIAN, MOHAMMAD M	
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/769,769	ONNO ET AL.			
Office Action Summary	Examiner	Art Unit			
	MEHDI RASHIDIAN	2624			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 16 Ju This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) 13-20,22,24 and 26 is 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12,21,23 and 25 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 03 February 2004 is/are	s/are withdrawn from consideration election requirement.				
Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Explanation is objected to by the Explanation is objected.	drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

Art Unit: 2624

DETAILED ACTION

1. Applicant's arguments with respect to **claims 1-12, 21, 23, and 25** have been considered in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claim 1 is rejected under 35 U.S.C. 101 as not falling within one of the four statutory categories of invention. While the claims recite a series of steps or acts to be performed, a statutory "process" under 35 U.S.C. 101 must (1) be tied to another statutory category (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or material) to a different state or thing. The instant claim 1 neither transform underlying subject matter nor positively tie to another statutory category that accomplishes the claimed method steps, and therefore do not qualify as a statutory process. Examiner recommends insertion of phrase "using a (at least a) processor (or computer) to perform the steps of: line 2 after "comprises;" and before "digital data".

Art Unit: 2624

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. **Claim 1** is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 line 9 "selecting a data block in one of the compressed signals" is indefinite and one of the skilled in the art is unable to identify the intended "signal".

Claim 1 recites the limitation "the other compressed signal" in line 10. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-12, 21, 23, and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Berthelot, Bertrand, et al (EP 0 982 931 A1) henceforth referred to as Berthelot.

Art Unit: 2624

Regarding **claim 1**, Berthelot teaches, a method of forming a compressed transcoded digital image signal from a compressed original digital image signal which comprises digital data organized in blocks, (abstract, figs. 1 and 4, ¶ 0001 - ¶0011),

- the compression of the original signal comprising at least one step of spatio-frequency transformation of this signal and a step of coding the data blocks of said transformed signal, wherein the method comprises the following steps: - selecting a data block in one of the compressed signals, (fig. 5 and 6, ¶ 0064 - ¶0072),
- identifying, in the other compressed signal, a so-called dual data block which corresponds to the data block selected having regard to a given geometric transformation applied to this block, (¶ 0073 - ¶0079),
- decoding the data block belonging to the compressed original signal, applying the given geometric transformation to the data block thus
 decoded, (¶ 0089 ¶0099),
- coding the geometrically transformed data block, (fig. 5 and 6, ¶ 0064 ¶0072),

Art Unit: 2624

 inserting the first data block thus coded in the compressed transcoded image signal at the position of its dual block, (¶ 0146 - ¶0155).

Regarding **claim 2**, Berthelot teaches, the method according to Claim 1, wherein the selection of a block is made in the compressed transcoded digital image signal, (abstract, figs. 1 and 4, ¶ 0001 - ¶0011).

Regarding **claim 3**, Berthelot teaches, the method according to Claim 1, wherein the selection of a block is made in the compressed original digital image signal, (¶ 0008 - ¶0011).

Regarding **claim 4**, Berthelot teaches, the method according to **Claim 1**, wherein the compressed transcoded digital image signal is formed progressively as each coded data block is inserted in this signal, (figs. 1 and 4, ¶ 0001 - ¶0011).

Regarding **claim 5**, Berthelot teaches, The method according to **Claim 1**, wherein the given geometric transformation is selected from amongst a set of transformations comprising a vertical axis reflection SV, a horizontal axis reflection SH, a transposition TR and a combination of transformations formed from at least two of the aforementioned three transformations SV, SH, TR. (abstract, figs. 5 and 6, table 1, ¶ 0081 - ¶0088).

Regarding **claim 6**, Berthelot teaches, the method according to **Claim 1**, wherein, when the compression of the original signal comprises, prior to the coding, a step of decomposition of said signal into frequency sub-bands, said method comprises a step of identifying the frequency sub-band to which the dual data block which depends on the given geometric transformation belongs, (figs. 1 and 4, ¶ 0001 - ¶0011).

Regarding **claim 7**, Berthelot teaches, the method according to **Claim 5**, wherein the compression of the original signal comprises, prior to the coding, a step of decomposition of said signal into frequency sub-bands, said method comprises a step of identifying the frequency sub-band to which the dual data block which depends on the given geometric transformation belongs, and when the geometric transformation applied to the decoded data block involves a transposition TR, if the data block of the first compressed signal belongs to a frequency sub-band LH having low-frequency coefficients in a first direction and high-frequency coefficients in a second direction, then the dual data block of the second compressed signal belongs to the frequency sub-band (HL) having high-frequency coefficients in the first direction and low- frequency coefficients in the second direction, and vice-versa, (abstract, figs. 5 and 6, table 1, ¶ 0081 - ¶0088).

Regarding **claim 8**, Berthelot teaches, the method according to **Claim 5**, wherein, when the given geometric transformation is selected from amongst a subset of transformations comprising a transposition TR, a combination of a transposition and a

Art Unit: 2624

vertical axis reflection TR o SV, a combination of a transposition and a horizontal axis reflection TR o SH, a combination of a transposition, a horizontal axis reflection and a vertical axis reflection TR o SH o SV, said transformation is applied an even number of times, (abstract, figs. 5 and 6, table 1, ¶ 0081 - ¶0088).

Regarding **claim 9**, Berthelot teaches, the method according to **Claim 1**, wherein the identification of the dual data block in the other compressed signal consists of seeking, in this signal, the position which the data block corresponding to the first compressed signal would have by applying the given geometric transformation to it, (abstract, figs. 5 and 6, table 1, ¶ 0081 - ¶0088).

Regarding **claim 10**, Berthelot teaches, the method according to **Claim 1**, wherein the selection, identification and decoding steps are performed using at least one header of the compressed original digital image signal and which comprises the various parameters characterizing the compressed image, (abstract, figs. 5 and 6, table 1, ¶ 0081 - ¶0088).

Regarding **claim 11**, Berthelot teaches, the method according to **Claim 10**, wherein it comprises a step of forming at least one header of the compressed transcoded digital image signal according to the geometric transformation applied, (abstract, figs. 5 and 6, table 1, ¶ 0081 - ¶0088).

Application/Control Number: 10/769,769

Page 8

Art Unit: 2624

Regarding **claim 12**, Berthelot teaches, the method according to **Claim 1**, wherein the steps of selecting, identifying, decoding, transforming and coding the data blocks are performed resolution level by resolution level of the compressed transcoded digital image signal, (abstract, figs. 5 and 6, table 1, ¶ 0081 - ¶0088).

Regarding **claim 21**, Berthelot teaches, a device for forming a compressed transcoded digital image signal from a compressed original digital image signal which comprises digital data organized in blocks, (abstract, figs. 1 and 4, ¶ 0001 - ¶0011),

- the compression of the original signal comprising at least a spatiofrequency transformation of this signal and a step of coding the data
 blocks of said transformed signal, wherein the device comprises mean for
 selecting a data block in one of the compressed signals, (fig. 5 and 6, ¶
 0064 ¶0072),
- means for identifying, in the other compressed signal, a so-called dual data block which corresponds to the data block selected having regard to a given geometric transformation applied to this block, (¶ 0073 - ¶0079),

Art Unit: 2624

 means for decoding the data block belonging to the compressed original signal, means for applying the given geometric transformation to the data block thus decoded, (¶ 0089 - ¶0099),

- means for coding the geometrically transformed data block, (fig. 5 and 6, ¶
 0064 ¶0072),
- and means for inserting the data block thus coded in the compressed
 transcoded image signal at the position of its dual block, (¶ 0146 ¶0155).

Regarding **claim 23**, a computer program for executing the steps of the method according to **claim 1**, (abstract, figs. 1 and 4, ¶ 0001 - ¶0011).

Regarding **claim 25**, a computer readable medium storing, in executable form, a computer program which can be loaded into a programmable apparatus, wherein it contains sequences of instructions or portions of software code for implementing the steps of the method according to **Claim 1**, when this computer program is loaded into and executed by the programmable apparatus, (abstract, figs. 1 and 4, ¶ 0001 - ¶0011).

Art Unit: 2624

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MEHDI RASHIDIAN whose telephone number is (571)272-9763. The examiner can normally be reached on Mon-Thurs 9:00AM to 8:00PM, ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samir Ahmed can be reached on (571) 272-7413. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mehdi Rashidian/

Examiner, Art Unit 2624

10/27/2008

/Samir A. Ahmed/

Art Unit: 2624

Supervisory Patent Examiner, Art Unit 2624